The National ITS Architecture Module 2

Module Goals

- To provide an overview of the National Architecture
- To discuss advantages of conforming to the National ITS Architecture

2 - 2

Module Outline

- The National ITS Architecture
- Benefits of conformity

2 3

The National ITS Architecture

- What is an Architecture?
- Vision
- Mission
- Example
- Interconnects
- What it is NOT
- What does the National ITS Architecture consist of?

2 - -

What Is an Architecture? Identifies boundaries and participants Describes activities or functions Provides framework for planning, defining, and integrating your ITS

National ITS Architecture: Vision

- Provide a framework for the definition of standards
- Provide the basis for integration among systems
- Ensure a high degree of flexibility in user choice

2 - 6

National ITS Architecture Provides Framework

- Description of activities or functions
- Options for you to consider for your regional and local ITS
- Set of tools to assist integration
- Information source for institutional linkages

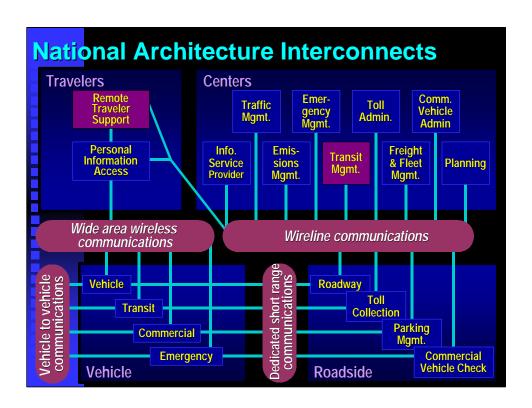




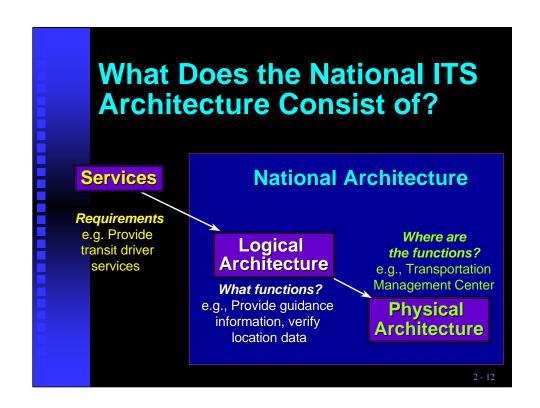
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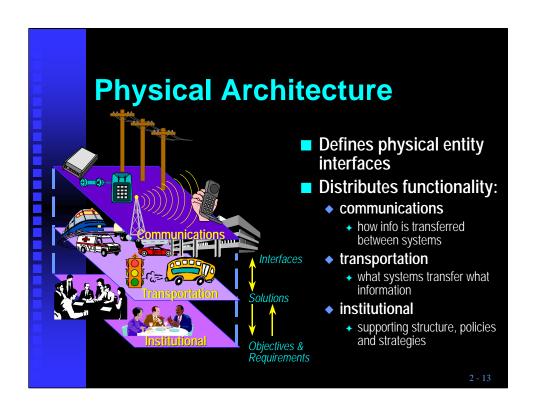
National ITS Architecture: Mission Architecture is the framework of interconnected subsystems • provides ITS services by defining functions and interfaces Subsystem 1 • function A • function B Subsystem 2 • function C • function D

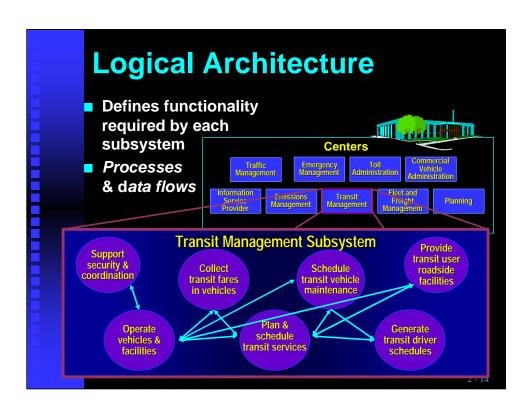
National ITS Architecture: Example **Remote Traveler Transit Support** Management Transit information request provide trip planning provide transit user . services roadside data provide traveler provide transit user Transit fares and schedules roadside vehicle data services at kiosks · display map provide transit user information roadside fare info

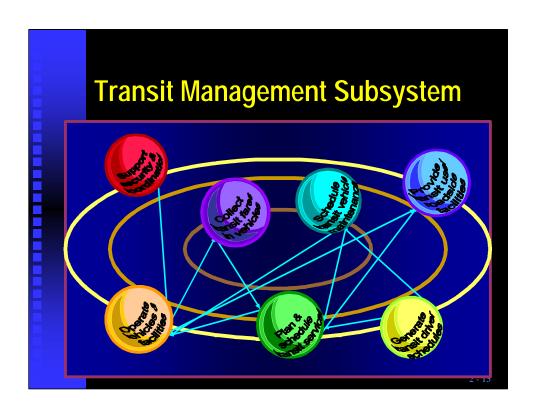


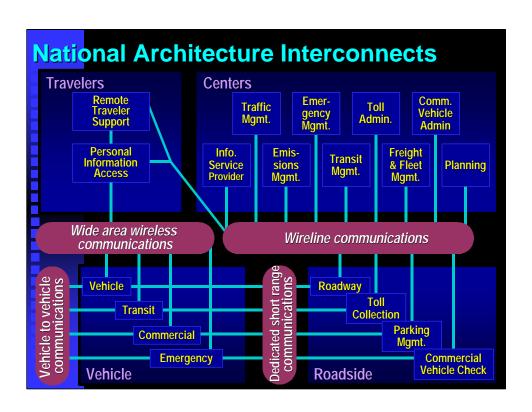
The National ITS Architecture: What It Is NOT ■ A design document ■ Technology prescriptive An institutional or development process Design View **GPS** Flat Panel Nav Receiver Display Wireless **^udio CD ROM** Tranceiver System 2 - 11

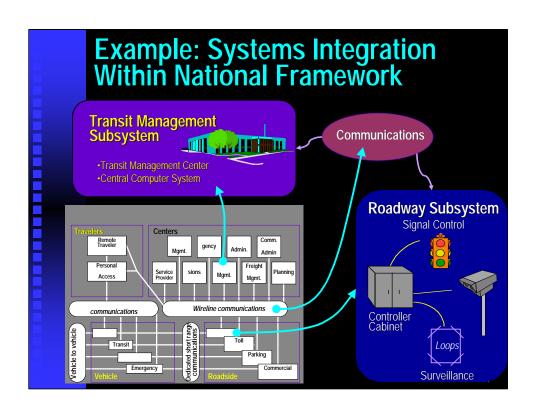












Benefits of Using National ITS Architecture Saves money by expanding markets Reduces development time Increases operational efficiency Streamlines procurement Lower Lower Less Risk Integration

Benefits of Using National ITS Architecture Ensures compatibility Enables future expansion Brings stakeholders together Allows information exchange Lower Cost ITS Less Risk

